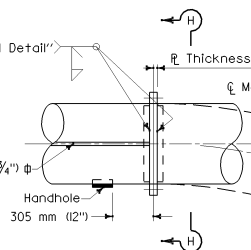
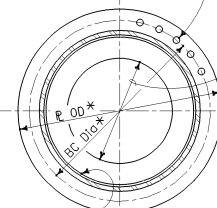
**MAST ARM END DETAIL**

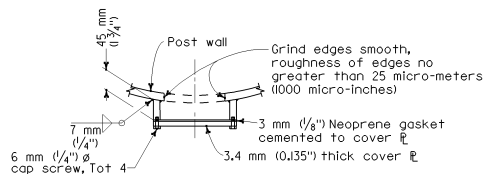
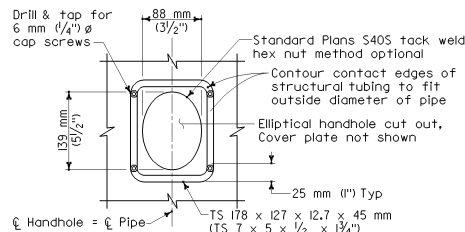
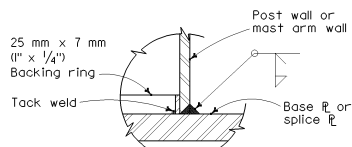
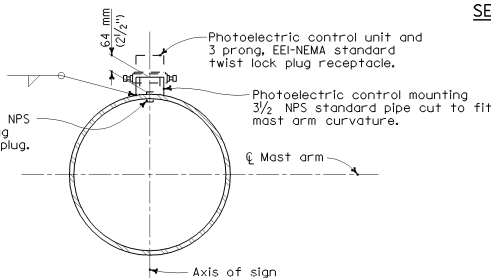
(For "Single Post Type" only)

SHOP SPLICE38 mm x 6.3 mm
(1 1/2" x 1/4")
Backing ringSee
"Weld Detail"**FIELD SPLICE**

ATSM A-325M H.S. bolts (galvanized) equally spaced (Direct Tension Indicator Method)
Torque to tension of:
91 kN (20 k) for M16 x 2 (5/8")
142 kN (29 k) for M20 x 2.5 (3/4")
176 kN (39 k) for M22 x 2.5 (1 1/8")
See table for other details

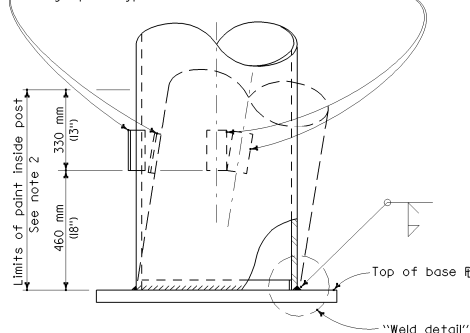


25 mm x 7 mm (1" x 1/4")
Backing ring. For welding
details not shown see
"Post Base Elevation"

SECTION H-H**PLAN****TYPICAL DETAILS OF
HANDHOLE AND COVER****WELD DETAIL**Drill and tap for 3/4" NPS
chase nipple and plug
with recessed pipe plug.**PHOTOELECTRIC CONTROL DETAILS**

(See "Layout" sheet for location when required)

Handholes:
two post type - face away from traveled way
single post type - far side of direction of traffic

**POST BASE ELEVATION**

(For base plate details see "Basic Plate and Anchorage Detail" sheet)

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
July 1, 2002 PLANS APPROVAL DATE					
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FIELD SPLICE					
Pipe Diameter NPS	Thickness	HS Bolts	* BC Diameter	* R OD	
8	29 mm (1 1/8")	13-M16 x 2 (5/8")	285 mm (11 1/4")	350 mm (13 3/4")	
10	32 mm (1 1/4")	20-M16 x 2 (5/8")	340 mm (13 3/4")	405 mm (16")	
12	32 mm (1 1/4")	17-M20 x 2.5 (3/4")	390 mm (15 3/8")	455 mm (18")	
14	32 mm (1 1/4")	19-M20 x 2.5 (3/4")	420 mm (16 1/2")	485 mm (19")	
16	32 mm (1 1/4")	22-M20 x 2.5 (3/4")	470 mm (18 1/2")	535 mm (21")	
18	35 mm (1 3/8")	26-M20 x 2.5 (3/4")	520 mm (20 1/2")	585 mm (23")	
20	35 mm (1 3/8")	29-M20 x 2.5 (3/4")	570 mm (22 1/2")	635 mm (25")	
24	38 mm (1 1/2")	26-M22 x 2.5 (1 1/8")	690 mm (27")	780 mm (30 3/4")	

* See note 4

NOTE:

Design based on capacity of standard pipe.

NOTES:

- Place single thin bead of silicone caulking compound around hole prior to bolting. Caulking not to interfere with friction between plates in bolted area.
- Prime and paint post interior from base R to 152 mm (6") above lower handhole-unless post is galvanized.
- "D" is inside diameters of "extra strong pipe".
- Field splice diameters marked "*" may be increased 51mm (2") to facilitate bolting.

NPS = Nominal Pipe Size

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**OVERHEAD SIGNS-TUBULAR
STRUCTURAL FRAME
DETAILS NO.2**

These "Standard Plans for Construction of Local Streets and Roads" contain units in two systems of measurement: International System of Units (SI or "metric") and United States Standard Measures shown in the parentheses (). The measurements expressed in the two systems are not necessarily equal or interchangeable. See the "Foreword" at the beginning of this publication.

NO SCALE

S40S